



**NANJING OCEAN INDUSTRY CO., LTD**  
**NANJING OCEAN GROUP CO., LIMITED**

## **CRYOGENIC TANK**

**-THE PROFESSIONAL SUPPLIER OF CRYOGENIC TANK**



**CATALOG 2025**

## CRYOGENIC LIQUID STORAGE TANK

### Products Introduction:

Cryogenic liquid storage tanks are used for the storage and supply of cryogenic liquids such as liquid oxygen, liquid nitrogen, liquid argon, and liquid carbon dioxide. These tanks offer advantages such as space-saving design, safety, reliability, and easy maintenance. They have been widely used in various industries, including gas, chemical, mechanical, metallurgy, electronics, medical, glass, mining, nuclear power, and others.

The tank supplies cryogenic liquid from the bottom and can be connected to an external vaporizer and cryogenic pump. It can also be designed and manufactured according to users' specific requirements.



### 1)Cryogenic Liquid Tank for LO<sub>2</sub>/LN<sub>2</sub>/LA<sub>r</sub>

Model	Effective Volume(M3)	Working Pressure(Bar)	LO <sub>2</sub>	LN <sub>2</sub>	LA <sub>r</sub>	Net Weight (Kg)	Dimension (mm)	Foot Mounting Dimension(mm)	Thermal-Insulating type
HG-IG-FVCT5-16	5.0	16.0	≤0.43	≤0.65	≤0.46	3997	φ1912×5254	3*foot mounting	Vacuum Powder Insulation or High-Vacuum Multi-Layer Insulation
HG-IG-FVCT10-16	10.0	16.0	≤0.36	≤0.55	≤0.38	6120	φ2216×6460		
HG-IG-FVCT15-16	15.0	16.0	≤0.35	≤0.53	≤0.37	7900	φ2216×1048		
HG-IG-FVCT20-16	20.0	16.0	≤0.33	≤0.50	≤0.35	9730	φ2216×1131		
HG-IG-FVCT30-8	30.0	8.0	≤0.29	≤0.44	≤0.3	11910	φ2616×10993		
HG-IG-FVCT30-16	30.0	16.0	≤0.29	≤0.44	≤0.3	12880	φ2616×10993		
HG-IG-FVCT50-8	50.0	8.0	≤0.23	≤0.35	≤0.24	18326	φ3020×12657	4*foot mounting	
HG-IG-FVCT50-16	50.0	16.0	≤0.23	≤0.35	≤0.24	20920	φ3020×12657		
HG-IG-FVCT100-8	100.0	8.0	≤0.16	≤0.25	≤0.17	31362	φ3520×16956		
HG-IG-FVCT100-16	100.0	16.0	≤0.16	≤0.25	≤0.17	36433	φ3520×16956		

### 2)Cryogenic Liquid Tank for LCO<sub>2</sub>

Model	Effective Volume(M3)	Design Pressure (Bar)	Net Weight (Kg)	Dimension (mm)	Foot Mounting Dimension(mm)	Thermal-Insulating type
HG-IG-FVCT5-22	5.0	22	4755	φ1916×5196	3*foot mounting&φ1600	Vacuum Powder Insulation
HG-IG-FVCT10-22	10		7690	φ2116×6900	3*foot mounting&φ1790	
HG-IG-FVCT15-22	15		10260	φ2216×1048	3*foot mounting&φ1990	
HG-IG-FVCT20-22	20		12993	φ2216×1131	3*foot mounting&φ2250	
HG-IG-FVCT30-22	30		19580	φ2820×9600	3*foot mounting&φ2500	
HG-IG-FVCT50-22	50		27973	φ3020×12660	4*foot mounting&φ3000*3000	
HG-IG-FVCT100-22	100		53995	φ3520×17047	4*foot mounting&φ3000*3000	



## CRYOGENIC LIQUID MICROBULK TANK

### Products Introduction:

The Cryogenic Liquid Micro-Bulk Tank is compact structure, which is used for storage & supply of cryogenic liquefied gas(LO<sub>2</sub>, LN<sub>2</sub>, LAr, LNG, LCO<sub>2</sub>). This product is a double-cylinder wall with Vacuum Powder Insulation(or High-Vacuum Multi-Layer Insulation) structural pressure vessel, which is made of austenitic stainless steel inner container, low alloy steel or stainless steel shell, support parts connecting the inner container and the shell, insulation material, molecular sieve adsorbent device, forlift pallet, and the valve installed around the container shell, pipeline operating system, etc.

Integrated Cryogenic Micro-Bulk tank(Integrated vaporization pressure regulator & odor device), Mainly composed of a small flat bottom low temperature container, pressure regulator, odor device, etc. providing stable gas to the outside, it is mainly used in LNG projects.

The Cryogenic Liquid Micro-Bulk Tank is designed for efficient gas using, especially for industrial, scientific & medical fields. It is more economical, more conducive & convenient to distribute. And it is suitable for boiler transformation, ceramics factory, hotel, restaurant, laser processing, low temperature laboratory and other fields. It has been widely used by customers due to the excellent thermal insulation & good performance.



Model	Capacity	Work Pressure	Extra Vaporizer	Regulator
HG-IG-GB-MB3-33	3.0M3	33.0BAR	NO	NO
HG-IG-GB-MB5-33	5.0M3			
HG-IG-GB-MB7.5-33	7.5M3			
HG-IG-GB-MB3-23	3.0M3	23.0BAR		
HG-IG-GB-MB5-23	5.0M3			
HG-IG-GB-MB7.5-23	7.5M3			

## CRYOGENIC LIQUID TRANSPORT SEMI- TRAILER

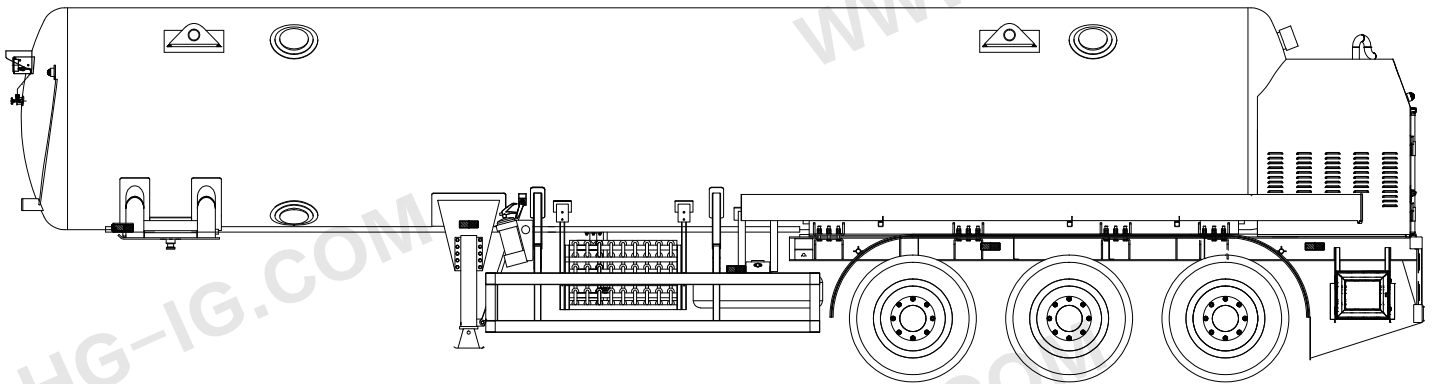
### Products Introduction:

Multi-Layer Vacuum Super-Insulated Cryogenic Liquid Transport Semi-Trailers are double-walled tankers designed for the large-volume transportation of LOX, LIN, LAR, LNG, and other Cryogenic Liquids over long distances.

Our standard range of cryogenic semi-trailers is available from 13, 000 to 22, 630 liters with multiple operating pressure options. While the inner vessel is made of stainless steel, our equipment incorporates stainless steel at strategic points on the outer vessel— such as lifting lugs, transport legs, and nozzle openings— to enhance the tank's durability.

Our semi-trailers are optimized for specific fluid duties to ensure the most economical and safe transportation of large volumes over long distances. The low center of gravity, combined with a lightweight, FEA- based undercarriage, helps maximize payload capacity and optimize logistics operations.

- Suitable Medium: LO<sub>2</sub>, LN<sub>2</sub>, LAr, LNG, LCO<sub>2</sub>
- Volume: 13,000~22,630 Liters
- Work Pressure: 8~22 bar



Model	Medium	Volume	Weight	Loading	Insulation	Dimensions(m)	Chassis	Emission	Remark
5181GDYG	LNG	16	10.8	6.885	Multi -Layers Winding	8.975*2.5*3.56	DFH1180EX9	National VI,Diesel	Front and Rear Disc Type, Rear Axle Free Suspension
5182GDYY	LO <sub>2</sub>	8.5	9.1	8.705		8.54*2.5*3.035	DFH1180EX9		
5260GDYY	LO <sub>2</sub>	13.05	12.795	13.075		10.07*2.5*3.035	ZZ5266XXYN504GF1K		
5320GDYY	LO <sub>2</sub>	16.67	15.2	16.670		11.84*2.5*3.65	ZZ1327N466GF1K		
5320GDYR	LA <sub>r</sub>	14	14.77	17.100		11.77*2.5*3.65	ZZ1327N466GF1K		
5320GDYN	LN <sub>2</sub>	22.34	16.0	15.870		11.92*2.5*3.65	ZZ1327N466GF1K		
5320GDYG	LNG	32.2	17.95	13.920		11.85*2.54*3.68	ZZ1327N466GF1LK		Front Coil & Rear Drum Type, Rear Suspension
5321GDYN	LN <sub>2</sub>	22.63	15.65	16.220		11.795*2.5*3.490	DFH1320E		
5321GDYY	LO <sub>2</sub>	16.95	14.895	16.975		11.715*2.5*3.490	DFH1320E		
5320GDYC	LCO <sub>2</sub>	17.9	15.135	16.735		11.505*2.5*3.49	DFH1320E		
*Weight & Loading in Ton / Volume in M3,									

## CRYOGENIC LIQUID LORRY TANK

### Products Introduction:

For a mobile device without working part, its design and manufacture is same as that of a tank truck. The product can be connected & assembled with the chassis or walking mechanism purchased by the user to form a complete tank truck.

The products application is flexible & the whole assembly can meet the different demands of different users.

- Suitable Medium: LO<sub>2</sub>, LN<sub>2</sub>, LAr, LNG, LCO<sub>2</sub>
- Volume: 1,000~30,000 Liters
- Work Pressure: 8bar-16bar-22 bar



Model: HG-IG-MHCT3-16



Model: HG-IG-MHCT10-16



Model: HG-IG-MHCT17-16

## ISO TANK

Product specification: 20 feet, 40 feet

Geometric volume: 20.8m<sup>3</sup>, 45.7m<sup>3</sup>, 52m<sup>3</sup>

Working pressure: 6.5 bar~2.3 bar

Medium: LO<sub>2</sub>, LN<sub>2</sub>, LAr, LCO<sub>2</sub>, LN<sub>2</sub>O, LNG, LC<sub>2</sub>H<sub>4</sub>

Advantages: The standard tank body of "Austenitic stainless steel strained mobile high-vacuum multi layer insulated cryogenic pressure vessel" is adopted, and the loading quality is among the advanced domestic all. There are currently two types of LNG, 40 feet and 45 feet, with a volume of approximately 45,700L and 52,000L

Product features: Pass CS, BV certification, and obtain certification from other international classification



Model	Volume (M3)	Standard	Insulation	Medium	Max Total Mass(kg)	Net Weight (kg)	Dimensions (mm)
1CC-TCS-20.8/16	20.8	ASME VIII	High Vacuum Multi Layers	LO <sub>2</sub> , LN <sub>2</sub> , LAr	36000	7890	6058*2438*2591
1CC-TCS-20.8/22	20.8	ASME VIII-I		LO <sub>2</sub> , LN <sub>2</sub> , LAr, LCO <sub>2</sub> , LN <sub>2</sub> O	36000	9100	6058*2438*2591
1CC-TCS-20.8/22B	20.8	ASME VIII-I		LO <sub>2</sub> , LN <sub>2</sub> , LAr, LCO <sub>2</sub> , LN <sub>2</sub> O, LNG, LC <sub>2</sub> H <sub>4</sub>	36000	9100	6058*2438*2591
1AA-TCSG-45.7/7.9	45.7	ASME VIII-I		LNG	34000	11635	12192*2438*2591
1EE-TCSG-52/6.5	52	ASME VIII-I		LNG	34000	13000	13716*2438*2591
1D-TCS-7.6/0.9	7.62	ASME VIII-I		LO <sub>2</sub> , LN <sub>2</sub> , LAr	15000	4730	
1D-TCS-7.7/1.6	7.72	NB/T47059		LO <sub>2</sub> , LN <sub>2</sub> , LAr	15000	5210	
1CC-TCS-22/22	22	ASME VIII-I		LO <sub>2</sub> , LN <sub>2</sub> , LAr, LCO <sub>2</sub> , LN <sub>2</sub> O, LNG, LC <sub>2</sub> H <sub>4</sub>	36000	8500	



## LNG MARINE STORAGE TANK

LNG Marine storage tank belongs to cryogenic liquid storage tank, which is a compact double-walled vacuum powder adiabatic cryogenic pressure vessel and is used for storage and supply of cryogenic liquefied natural gas liquids and gases. The gas supply system is mainly composed of LNG storage tank, pressurization system, triple vaporization system, frame, filling parts and pipeline system. The components of the system are integrated in a rectangular frame to form an integral skid. There is no need to carry out a large number of pipes on the site, and it is convenient to disassemble and assemble. Just connecting the frame installation girder with the hull bearing beam.

It not only has the advantages of land vehicle refueling station, but also can meet the needs of ship by refueling safely under dynamic conditions, and is suitable for Marine LNG fuel refueling in the big river, inland river and lake.

\* Volume: 2~250 M<sup>3</sup>

\* Working Pressure: 10 bar



JUST TRUST **US** DO THE BEST  
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